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[\[PDF\] Deadlock detection for distributed process networks](#)[psu.edu](#) [PDF]

AG Olson, BL Evans - Proc. ICASSP - Citeseer

... are any tokens en route (or untransmitted) to any blocked process, the system is not necessarily **deadlocked**. ... [14] KM Chandy, J. Misra, and LM Hass., "Distributed deadlock detection ... [15] DP Mitchell and MJ Merritt, "A distributed algorithm for **dead-lock detection** and resolution ...

Cited by 11 - [Related articles](#) - [View as HTML](#) - All 9 versions[\[PDF\] Artificial deadlock detection and correction in bounded scheduling of ...](#)[psu.edu](#) [PDF]

B Vaidyanathan - UT Austin EE 382C-9 Embedded Software Systems ..., 1999 - Citeseer

... It implements Parks bounded scheduling and handles **detection of artificial deadlock**. However, it employs a separate Java thread that handles the **deadlocks** and resolves them as soon as they arise ... checks for artificial **deadlock**. DESIGN AND IMPLEMENTATION ...

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D Jefferson, H Sowizral - 1982 - rand.org

... are becoming increasingly available, this approach should be practical in the near future. ... unusual feature is the use of rollback and antmessages to automatically **correct** the temporal ... o The Time Warp mechanism cannot **deadlock**, and it always progresses forward in simulation ...

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G Allen, P Zucknick, B Evans - ... Conference on Acoustics, Speech and Signal ... - Citeseer

... Geilen and Basten also showed [9] that a dynamic **dead-lock** detector should detect local **deadlocks**, not only global ones as proposed by Parks. ... If a dependency chain is cyclic it indicates a local **deadlock**, and no further progress can be made without external resolution ...

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BW Unger, JG Cleary, A Covington, D ... - Proceedings of the 25th ..., 1993 - portal.acm.org

... **detection and correction** for not having to perform **deadlock avoidance or deadlock detection** and recovery (as required in conservative systems). ... data structures are associated with each

process: an input **queue**, an output **queue**, and a state **queue**. ...

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[\[PDF\] A Study on Process Networks](#)

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B Vaidyanathan - Citeseer

... 8 simultaneously. If the program is unbounded, execution repeatedly stops due to artificial **deadlock**, and we **increase** the **queue** size repeatedly without limit. This ... artificial **deadlock detection** and **correction** in T. Parks's bounded scheduling of process networks model. ...

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[Virtual time](#)

[psu.edu](#) [PDF]

DR Jefferson - ACM Transactions on Programming Languages and ..., 1985 - portal.acm.org

... There is no **deadlock**, starvation, or any other corresponding hazard when virtual time is implemented by the Time Warp ... concerned with making sure that events are executed and messages received in **correct** order (providing a "weakly **correct**" implementation ... **detection** (all ...

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[Parallel discrete event simulation](#)

[hcmut.edu.vn](#) [PDF]

RM Fujimoto - Proceedings of the 21st conference on Winter ..., 1989 - portal.acm.org

... that one computation must pre- cede the other for the computation to be **correct**. ... small clock values, each process in that cycle must block, and tile simulation **deadlocks**. ... completed to evaluate the performance of the **deadlock** avoidance and **deadlock detection** and recovery ...

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[A provably correct, non-deadlocking parallel event simulation algorithm](#)

[debenedictis.org](#) [PDF]

ML Yu, S Ghosh, E DeBenedictis - ... of the 24th annual symposium on ..., 1991 - portal.acm.org

A Provably **Correct**, Non-Deadlocking Parallel Event Simulation Algorithm ... state yet the non-oscillatory components of the system cannot execute due to local **deadlocks**. Besides, the potentially very high overhead for **deadlock detection** and recovery limits its applications. ...

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[A New Look at Timestamp Ordering Concurrency Control](#)

R Srinivasa, C Williams, PF Reynolds - Lecture notes in computer ..., 2001 - Springer

... Note that 2C guarantees a **correct** execution only in the absence of data contention. ... as well as global **deadlock detection** using waits-for graphs, but the cost of **deadlock detection** is set to ... The percentage of restarts in 2PL is much lower than that in BTO, since **deadlocks** are not ...

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Congestion control for cell networks

LA Bustini, PD Daley, CM Corbalis - US Patent 5,313,454, 1994 - Google Patents

... By monitoring the buffer queue lengths at the nodes, a control signal can be generated at each intermediate node indicating the state of congestion. Excess queue length indicates incipient congestion while short queue lengths indicate excess capacity. ...

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TPDF End-to-end congestion control for high performance data transfer

psu.edu [PDF]

Y Gu, RL Grossman - submitted to IEEE/ACM Transaction on Networking - Citeseer

... The pattern of data flow over these high speed wide area networks, or high bandwidth-delay product (BDP) networks ... Given a practical value of RTT of the longest link can have in the near future, which ... steady state, whereas flow control can help to reduce loss during congestion. ...

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[PDF] Prediction of performance and processor requirements in real-time data flow ...

[scilib.kiev.ua \[PDF\]](#)

S Som, RR Mielke, JW Stoughton - IEEE Transactions on Parallel 1993 - scilb.kiev.ua

... In this way, it is possible to increase the token count on directed loops formed Page 7. SOM ef

a1: PERFORMANCE AND PROCESSOR REQUIREMENTS IN REAL-TIME DATA FLOW

ARCHITECTURES 1211 t=3 Fig. 12. Example AMG of Fig. 4 with control arc added ...

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[BOOK] Network congestion control

itks-training.com [PDF]

M Welzl - 2005 - itk-training.com

... 12.2.3 Data flow in node 2 12.2.4 Vector diagrams showing trajectories of AIAD ... 188

5.3 Leaky bucket and token bucket Recommended alternative: Rayadurgam Srikant, 'The Mathematics of Internet Con- gestion Control'. Springer Verlag 2004 ...

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... and method for traffic shaping based on generalized congestion and flow control

M Freed, S Amara, M Borella - US Patent 7,088,678, 2006 - Google Patents

... 28, 1980, pp. 1-3. RFC 793, Transmission Control Protocol, DARPA Internet Program Protocol Specification, Sep. ... 2655-2658. "A Solution for the Priority Queue Problem of ... li to 196.

Ramakrishnan, K. A Proposal to Add Explicit Congestion Notification (ECN) to IP. RFC 2481.

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[\[PDF\] Rate adaptation, congestion control and fairness: A tutorial](#)

[psu.edu \[PDF\]](#)

JY Le Boudec - Web page, November, 2005 - Citeseer

... For a given source s , the set of links l such that $A_l s > 0$ is the path followed by the data flow with source s . In the simplest case (no ... **CONGESTION CONTROL FOR BEST EFFORT: THEORY** ... For some source s , let us try to increase the rate x_s while keeping the allocation feasible. ...

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[\[BOOK\] Congestion and error control in overlay networks](#)

[psu.edu \[PDF\]](#)

D Constantinescu, D Erman, D Ilie, A Popescu - Citeseer

... 21 2.3.4 Error Detection 22 2.3.6 Forward Error Correction 6 Page 17. 2.2. Congestion Control Mechanisms Table 2.1: Evolution during Slow-Start phase. Packet cwnd Packet(s) Queue ...

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[Hop-by-hop congestion control over a wireless multi-hop network](#)

[psu.edu \[PDF\]](#)

Y Yi, S Shakkottai - IEEE/ACM Transactions on Networking (TON), 2007 - portal.acm.org

... The authors develop a token-based local scheduling policy at each node to ensure ... Each data flow in the network corresponds to an ordered sequence of links, and ... YI AND SHAKKOTTAI: HOP-BY-HOP **CONGESTION CONTROL OVER A WIRELESS MULTI-HOP NETWORK** ...

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[\[PDF\] Scheduling algorithms in broad-band wireless networks](#)

[nctu.edu.tw \[PDF\]](#)

Y Cao, VOK Li - PROCEEDINGS-IEEE, 2001 - wise.cm.nctu.edu.tw

... control and congestion control policies are all dependent on the specific scheduling disciplines used. ... knowledge on wireless links and a perfect multiple-access control (MAC) protocol, IWFG works as ... An LTFS is a special data flow created for compensating flows whose packet ...

[Cited by 261](#) - [Related articles](#) - [View as HTML](#) - [BL Direct](#) - [All 6 versions](#)

[Traffic congestion](#)

S Haumont - US Patent App. 10/450,960, 2003 - Google Patents

... buffers for storing received data before it is distributed further in the direction of data flow. ... SGSN 14 keeps track of the mobile stations location and performs security functions and access control. ... is conformant with maxi- mum bitrate as long as it follows a token bucket algorithm ...

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